

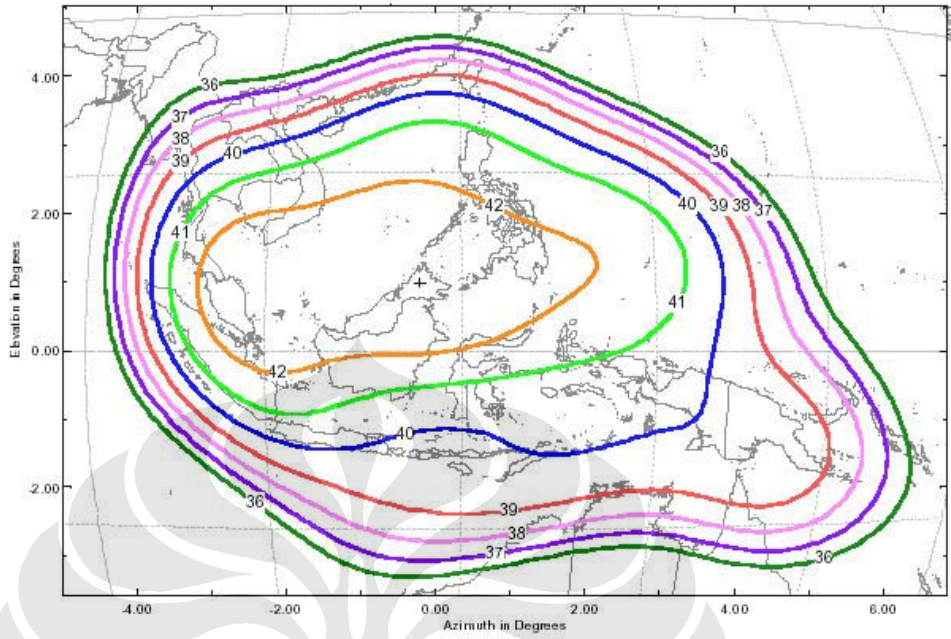


LAMPIRAN

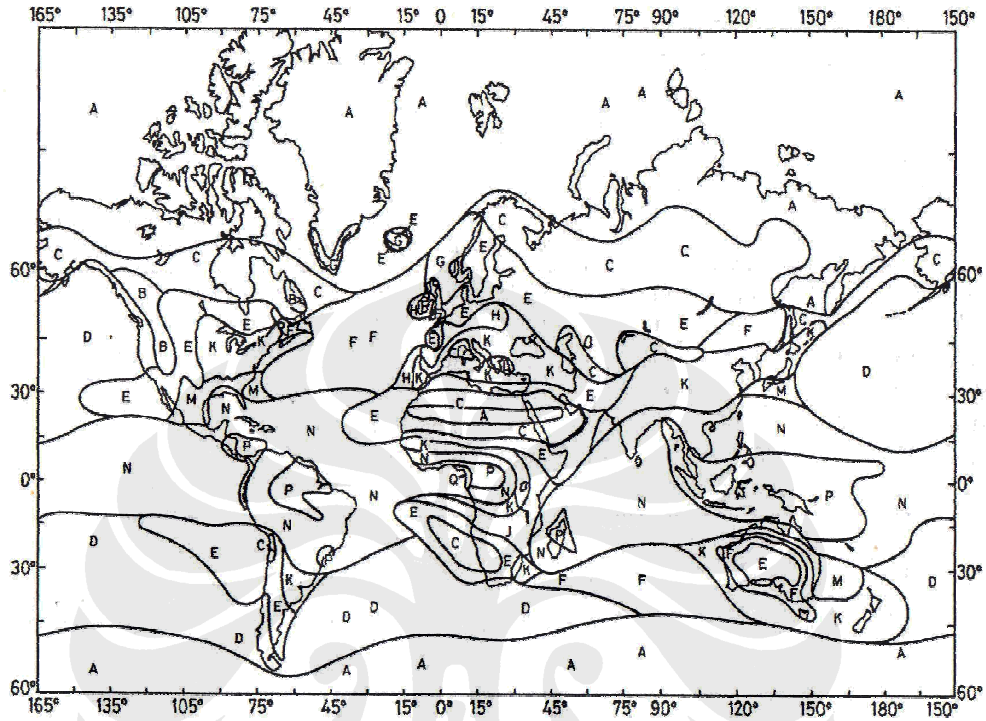
LAMPIRAN 1 Karakteristik Umum Satelit Telkom 2

Orbital Location	118 °East
Station Keeping	$\pm 0,05$ °(E/W & N/S)
Manufacture	Orbital Science Corporation
Body Stabilization	Three Axis
Launched	17 November 2005
Life Time	15 Years
Coverage	<u>ASEAN Beam:</u> (South East Asia, South China, Papua New Guinea, North Australia, Guam) <u>ASEAN + INDIA Beam:</u> (South Asia, South East Asia, South China, Papua New Guinea , North Australia, Guam)
EIRP (Maximum Operating)	ASEAN Beam: 43 dBW (typical at peak) ASEAN + INDIA Beam: 42 dBW (typical at peak)
IBO/OBO (aggregate)	Multi Carrier Application : 6 / 4 dB
G/T	2 dB/K (typical at peak)
SFD (@ 0 dB PAD)	- 105 dBW/m ² (typical at peak)
Attenuator	0 – 22 dB (1 dB/Step)
Frequency Range	5925 – 6425 MHz (Up Link) 3700 – 4200 MHz (Down Link)
Number of Transponders	24 Channel (4 Ch ASEAN + INDIA Beam , 20 Ch ASEAN Beam)
Channel Bandwidth	36 MHz
Polarization	Linier (Horizontal / Vertical)
Redundancy	Transponder : 2 Groups of 15 for 12 Receiver : 5 for 3
Beacon Frequency	Horizontal : 4199,61 MHz Vertical : 3701,25 MHz

EIRP (dBW) Telkom-2 ASEAN Beam



Lampiran 2 Gambar Pembagian Daerah Hujan Sesuai dengan Rekomendasi CCIR [7]



Rain climatic zones for ITU
Regions 1 and 3; rainfall
intensity at 0.01%

Rain zone	Rainfall Intensity, mm/hr
A	8
B	12
C	15
D	19
E	22
F	28
G	30
K	42
M	63
N	95
P	145

Lampiran 3 Tabel Rainfall Climatic Region dan Koefisien regresi [7]

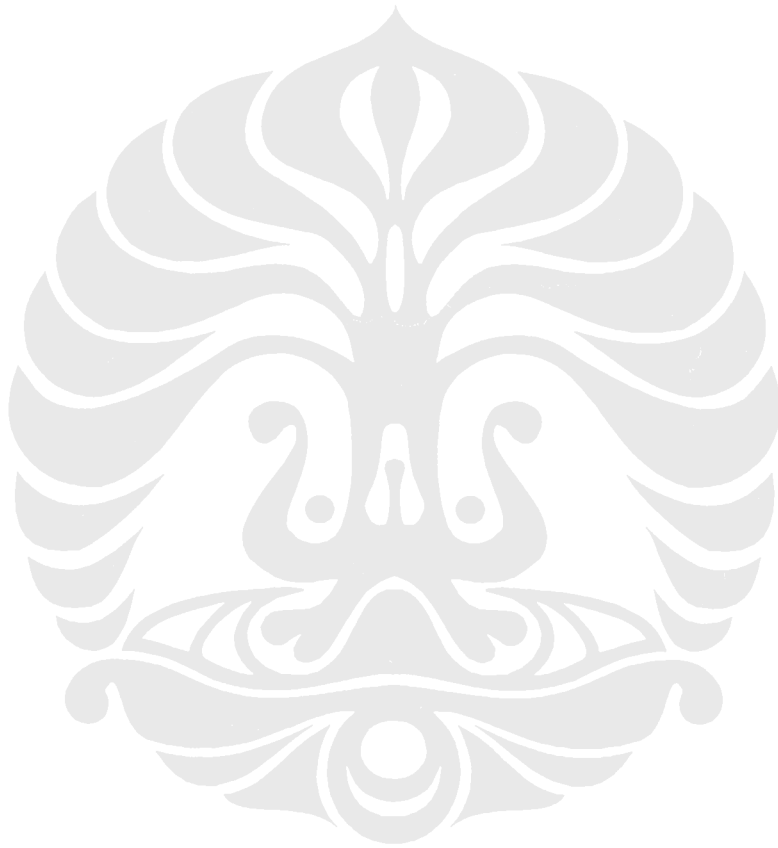
Tabel *Rainfall climatic region, rainfall intensity exceeded* (mm/h)

Percentage of time (%)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
1,0	-	1	-	3	1	2	-	-	-	2	-	4	5	12
0,3	1	2	3	5	3	4	7	4	13	6	7	11	15	34
0,1	2	3	5	8	6	8	12	10	20	12	15	22	35	65
0,03	5	6	9	13	12	15	20	18	28	23	33	40	65	105
0,01	8	12	15	19	22	28	30	32	35	42	60	63	95	145
0,003	14	21	26	29	41	54	45	55	45	70	105	95	140	200
0,001	22	32	42	42	70	78	65	83	55	100	150	120	180	250

Tabel koefisien regresi untuk estimasi redaman hujan spesifik

Frekuensi (GHz)	a_H	a_V	b_H	b_V
1	0.0000387	0.0000352	0.912	0.880
2	0.000154	0.000138	0.963	0.923
4	0.000650	0.000591	1.121	1.075
6	0.00175	0.00155	1.308	1.265
7	0.00301	0.00265	1.332	1.312
8	0.00454	0.00395	1.327	1.310
10	0.0101	0.00887	1.276	1.264
12	0.0188	0.0168	1.217	1.200
15	0.0367	0.0335	1.154	1.128
20	0.0751	0.0691	1.099	1.065
25	0.124	0.113	1.061	1.030
30	0.187	0.167	1.021	1.000
35	0.263	0.233	0.979	0.963
40	0.350	0.310	0.939	0.929
45	0.442	0.393	0.903	0.897
50	0.536	0.479	0.873	0.868
60	0.707	0.642	0.826	0.824
70	0.851	0.784	0.793	0.793
80	0.975	0.906	0.769	0.769
90	1.06	0.999	0.753	0.754
100	1.12	1.06	0.743	0.744
120	1.18	1.13	0.731	0.732
150	1.31	1.27	0.710	0.711
200	1.45	1.42	0.689	0.690
300	1.36	1.35	0.688	0.689
400	1.32	1.31	0.683	0.684

Lampiran 4 Spesifikasi C-Band Tranceiver dan spesifikasi SSPA



LAMPIRAN 5 Gambar Modem Comtech CDM 600 dan Stasiun bumi

Gambar *modem* Comtech CDM 600



Gambar stasiun bumi

